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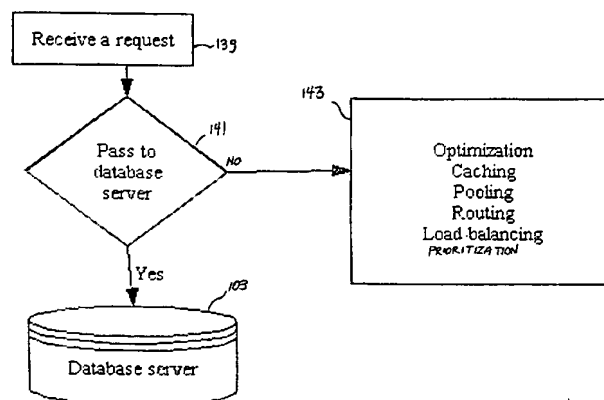
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(54) Title: SYSTEM AND METHOD FOR THE OPTIMIZATION OF DATABASE



(57) Abstract: A database network router (DNR) (101) in a database network includes a client access module (113) and a database resource manager (117) that communicate with each other using a common software interface. The client access module (113) communicates with clients (105) including application servers and external database servers (103); and the database resource manager (117) communicates with the database servers (103). The DNR (101) also includes a protocol manager (115) for handling multiple database protocols. The database network router (101) also includes local data cache storage (137) to store commonly used data objects, results of parsed query statement (179), non-optimized query statements. The database network router (101) identifies and assigns a priority to each client (111) on log-in. The DNR (101) provides a method for connections pooling, a method for balancing the load in a database networks and a method for synchronizing the data stored in cache memory with the database to insure data reliability. The DNR (101) also provides a method for monitoring and optimizing data queries to improve the performance of the database network. The DNR (101) also provides a method to migrate from an old (404) to a new version (103) of a database.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06 F 17/30

US CL : 707/4

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/4, 3, 100

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,611,048 A (JACOB et al) 11 March 1997 (11.03.1997), column 3, lines 65-67 to column 4, lines 1-19).	1-5
X	US 5,848,415 A (GUCK) 08 December 1998 (12.08.1998), column 3, lines 24-41.	11-13
X	US 6,112,249 A (BADER et al) 09 August 2000 (09.08.2000), column 2, lines 52-69.	14-15
X	US 5,546,580 A (SELIGER et al) 13 August 1996 (13.08.1996), column 1, lines 60-67.	16
X	US 6,363,398 B1 (ANDERSEN) 26 March 2002 (26.03.2002), column 1, lines 66-67 to column 2, lines 1-36.	17-21
X	US 6,345,266 B1 (GANGULY et al) 05 February 2002 (05.02.2002), column 14, lines 52-67.	22
X	US 5,640,556 A (TAMURA) 17 June 1997 (17.06.1997), column 2, lines 3-39.	6-10



Further documents are listed in the continuation of Box C.



See patent family annex.

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"P"	document published prior to the international filing date but later than the priority date claimed		

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